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<120> 28 Human Secreted Proteins

<130> PZ003P4

<140> Unassigned

<141> 2001-05-11

<150> 60/265,583

<151> 2001-02-02

<150> 09/152,060

<151> 1998-09-11

<150> PCT/US98/04858

<151> 1998-03-12

<150> 60/040,762

<151> 1997-03-14

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<150> 60/048,970

<151> 1997-06-06

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<151> 1997-12-19

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<170> PatentIn Ver. 2.0

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<212> DNA

<213> Homo sapiens

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cagactaagg	agttttgatc cctagtgatt acagccctga agaaaattaa atctgaatta 240
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 <213> Homo sapiens

<220>
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 <222> (871)
 <223> n equals a,t,g, or c

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 <211> 736

<212> DNA
<213> Homo sapiens

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<222> (701)
<223> n equals a,t,g, or c

<220>
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<223> n equals a,t,g, or c

<220>
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<210> 21
<211> 1688
<212> DNA
<213> Homo sapiens

<400> 21
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<213> Homo sapiens

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<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (2041)
<223> n equals a,t,g, or c
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<211> 1101

<212> DNA

<213> Homo sapiens

<400> 23

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<210> 24

<211> 1659

<212> DNA

<213> Homo sapiens

<400> 24

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<211> 1329

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (520)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (1140)

<223> n equals a,t,g, or c

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<211> 700

<212> DNA

<213> Homo sapiens

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 <223> n equals a,t,g, or c

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 <213> Homo sapiens

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 <221> SITE
 <222> (821)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (825)
 <223> n equals a,t,g, or c

<400> 27									
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gcctagctca	gagctttggg	gctgtctgta	aggagccaca	ggaggagggtg	gttcctggcg				240
ggggccgcag	caagagggat	ccagatctct	accagctgct	ccagagactc	ttcaaaagcc				300
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<210> 28
<211> 2361
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (2361)
<223> n equals a,t,g, or c
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<210> 29

<211> 879

<212> DNA

<213> Homo sapiens

<400> 29

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<210> 30

<211> 1732

<212> DNA

<213> Homo sapiens

<400> 30

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<210> 31

<211> 3259

<212> DNA

<213> Homo sapiens

<400> 31

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<210> 32

<211> 454

<212> DNA

<213> Homo sapiens

<400> 32

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<210> 33

<211> 230

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (26)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (219)

<223> n equals a,t,g, or c

<400> 33

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<210> 34

<211> 753

<212> DNA

<213> Homo sapiens

<400> 34

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<210> 35

<211> 1022

<212> DNA

<213> Homo sapiens

<400> 35

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<210> 36

<211> 3044

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (2383)

<223> n equals a,t,g, or c

<400> 36

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<212> DNA
<213> Homo sapiens

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<223> n equals a,t,g, or c

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<220>
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<222> (486)

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<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (530)

<223> n equals a,t,g, or c

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ccggtaccca	attcgcccta	tagtgagtcg	tattacaatt	cactgggccc	tcgttttaca	480
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<211> 1752

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (356)

<223> n equals a,t,g, or c

<400> 38

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<210> 39
 <211> 1907
 <212> DNA
 <213> Homo sapiens

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 <211> 2350
 <212> DNA
 <213> Homo sapiens

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<211> 1114

<212> DNA

<213> Homo sapiens

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 <212> DNA
 <213> Homo sapiens

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 <223> n equals a,t,g, or c

<220>
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<220>
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 <211> 1473
 <212> DNA

<213> Homo sapiens

<400> 43

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<210> 44

<211> 772

<212> DNA

<213> Homo sapiens

<400> 44

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<211> 403

<212> DNA

<213> Homo sapiens

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<223> n equals a,t,g, or c

<400> 45

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cggcatgagt	ggaggtggat	ggcgtgggat	gtactgaaag	caaaaacacc	aacatacaag	240
tcttgacaac	agcatctggt	ctactagact	ttcttacaga	tttaatttct	tttgtatttt	300
aagaacttta	taatgactga	aggaatgtgt	tttcaaaata	ttatttggtg	aagcaacaga	360
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<210> 46

<211> 928

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (49)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (78)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (148)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (163)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (532)

<223> n equals a,t,g, or c

<400> 46

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<210> 47
 <211> 885
 <212> DNA
 <213> Homo sapiens

<400> 47	
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<210> 48
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 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (2264)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (2312)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (2315)
 <223> n equals a,t,g, or c

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<210> 49

<211> 3175

<212> DNA

<213> Homo sapiens

<400> 49

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<210> 50

<211> 783

<212> DNA

<213> Homo sapiens

<400> 50

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aat						783

<210> 51

<211> 3030

<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (60)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (2388)
<223> n equals a,t,g, or c

<400> 51

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atcaaccatc	tctgagataa	cagcagaagt	caacaacttc	cggctatcca	gatggccggg	2580
caatggcagg	gcaggtgccg	tggccctgca	ggccctcaag	ggctcccagg	acagctcaga	2640

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gaatgatytg gtgcgaagcc ccaagtcggc tggcagcaga accagcagct ccgtcagcag 2700
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<210> 52
 <211> 61
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (58)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 52
 Met Glu His Ala Ala Gly Leu Pro Val Thr Arg His Pro Leu Ala Leu
 1 5 10 15
 Leu Leu Ala Leu Cys Pro Gly Pro Phe Pro Ala Leu Leu Leu Pro Leu
 20 25 30
 Leu Pro Trp Gly Tyr Pro Leu Ala Pro Pro Gly Leu Cys Lys Leu Pro
 35 40 45
 Gln Gly Ala Pro Leu Pro Cys Ser Ser Xaa Leu Thr Ser
 50 55 60

<210> 53
 <211> 243
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (15)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (190)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 53
 Met Asp Gln Tyr Cys Ile Leu Gly Arg Ile Gly Glu Gly Ala Xaa Gly
 1 5 10 15
 Ile Val Phe Lys Ala Lys His Val Glu Thr Gly Glu Ile Val Ala Leu
 20 25 30
 Lys Lys Val Ala Leu Arg Arg Leu Glu Asp Gly Phe Pro Asn Gln Ala
 35 40 45

Leu Arg Glu Ile Lys Ala Leu Gln Glu Met Glu Asp Asn Gln Tyr Val
 50 55 60
 Val Gln Leu Lys Ala Val Phe Pro His Gly Gly Gly Phe Val Leu Ala
 65 70 75 80
 Phe Glu Phe Met Leu Ser Asp Leu Ala Glu Val Val Arg His Ala Gln
 85 90 95
 Arg Pro Leu Ala Gln Ala Gln Val Lys Ser Tyr Leu Gln Met Leu Leu
 100 105 110
 Lys Gly Val Ala Phe Cys His Ala Asn Asn Ile Val His Arg Asp Leu
 115 120 125
 Lys Pro Ala Asn Leu Leu Ile Ser Ala Ser Gly Gln Leu Lys Ile Ala
 130 135 140
 Asp Phe Gly Leu Ala Arg Val Phe Ser Pro Asp Gly Ser Arg Leu Tyr
 145 150 155 160
 Thr His Gln Val Ala Thr Arg Ser Ser Leu Ser Cys Arg Thr Thr Thr
 165 170 175
 Arg Ser Pro Leu Arg Ser Arg Cys Pro Cys Pro Trp Arg Xaa Cys Cys
 180 185 190
 Leu Thr Ser Leu Pro Arg His Trp Ile Cys Trp Val Asn Ser Phe Ser
 195 200 205
 Thr Leu Leu Thr Ser Ala Ser Gln Leu Pro Arg Leu Ser Ser Ile Ser
 210 215 220
 Thr Ser Ser Gln Leu Pro Cys Leu Pro Ile His Leu Ser Cys Arg Phe
 225 230 235 240
 Leu Ser Val

<210> 54
 <211> 65
 <212> PRT
 <213> Homo sapiens

<400> 54
 Met Glu Ala Lys Phe Gly Leu Leu Cys Phe Leu Val Ser Thr Pro Trp
 1 5 10 15
 Ala Glu Leu Leu Ser Leu Leu Leu His Leu Thr Gln Val Pro Phe Pro
 20 25 30
 Gly Ser Gln Gly Leu Gly Leu Asn Asn Cys Arg Ala Ala Cys His Asp
 35 40 45
 Leu Ser His Leu Leu Leu Ser His Ser Ala Ile Asn Gln Thr Lys Glu
 50 55 60

Phe
65

<210> 55
<211> 37
<212> PRT
<213> Homo sapiens

<400> 55
Met Leu Ala Arg Lys Ala Glu Arg Gly Ser Met Gly Thr Ala Arg Asp
1 5 10 15
Ser His Ile Leu Leu Val Cys Ser Val Val His Pro Ala Ser Ala Gln
20 25 30
Pro Val Tyr Thr Val
35

<210> 56
<211> 317
<212> PRT
<213> Homo sapiens

<400> 56
Met Leu Ser Phe Lys Leu Leu Leu Leu Ala Val Ala Leu Gly Phe Phe
1 5 10 15
Glu Gly Asp Ala Lys Phe Gly Glu Arg Asn Glu Gly Ser Gly Ala Arg
20 25 30
Arg Arg Arg Cys Leu Asn Gly Asn Pro Pro Lys Arg Leu Lys Arg Arg
35 40 45
Asp Arg Arg Met Met Ser Gln Leu Glu Leu Leu Ser Gly Gly Glu Met
50 55 60
Leu Cys Gly Gly Phe Tyr Pro Arg Leu Ser Cys Cys Leu Arg Ser Asp
65 70 75 80
Ser Pro Gly Leu Gly Arg Leu Glu Asn Lys Ile Phe Ser Val Thr Asn
85 90 95
Asn Thr Glu Cys Gly Lys Leu Leu Glu Glu Ile Lys Cys Ala Leu Cys
100 105 110
Ser Pro His Ser Gln Ser Leu Phe His Ser Pro Glu Arg Glu Val Leu
115 120 125
Glu Arg Asp Leu Val Leu Pro Leu Leu Cys Lys Asp Tyr Cys Lys Glu
130 135 140
Phe Phe Tyr Thr Cys Arg Gly His Ile Pro Gly Phe Leu Gln Thr Thr
145 150 155 160
Ala Asp Glu Phe Cys Phe Tyr Tyr Ala Arg Lys Asp Gly Gly Leu Cys
165 170 175

Leu Asp Gly Leu Ser Leu Pro Ala Pro Lys Leu Leu Thr Ala Ser Leu

35

40

45

Cys Leu Gln Asp Glu Val Arg Ala Val
 50 55

<210> 59
 <211> 52
 <212> PRT
 <213> Homo sapiens

<400> 59
 Met Ser Ser Trp Pro Phe Cys Pro Ser Leu Cys Phe Ser Leu Ser Asn
 1 5 10 15

Leu Ile Pro Gly Ser Gly Leu Leu Pro Val Glu Thr Gly Glu Leu Gly
 20 25 30

Leu Leu Ser Ala Ala Tyr Leu Leu Pro Phe Thr Cys Ile Gln Leu Leu
 35 40 45

Gly Leu Gly Pro
 50

<210> 60
 <211> 296
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (281)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 60
 Met Ala Val Leu Ala Pro Leu Ile Ala Leu Val Tyr Ser Val Pro Arg
 1 5 10 15

Leu Ser Arg Trp Leu Ala Gln Pro Tyr Tyr Leu Leu Ser Ala Leu Leu
 20 25 30

Ser Ala Ala Phe Leu Leu Val Arg Lys Leu Pro Pro Leu Cys His Gly
 35 40 45

Leu Pro Thr Gln Arg Glu Asp Gly Asn Pro Cys Asp Phe Asp Trp Arg
 50 55 60

Glu Val Glu Ile Leu Met Phe Leu Ser Ala Ile Val Met Met Lys Asn
 65 70 75 80

Arg Arg Ser Ile Thr Val Glu Gln His Ile Gly Asn Ile Phe Met Phe
 85 90 95

Ser Lys Val Ala Asn Thr Ile Leu Phe Phe Arg Leu Asp Ile Arg Met
 100 105 110

Gly Leu Leu Tyr Ile Thr Leu Cys Ile Val Phe Leu Met Thr Cys Lys

115 120 125
 Pro Pro Leu Tyr Met Gly Pro Glu Tyr Ile Lys Tyr Phe Asn Asp Lys
 130 135 140
 Thr Ile Asp Glu Glu Leu Glu Arg Asp Lys Arg Val Thr Trp Ile Val
 145 150 155 160
 Glu Phe Phe Ala Asn Trp Ser Asn Asp Cys Gln Ser Phe Ala Pro Ile
 165 170 175
 Tyr Ala Asp Leu Ser Leu Lys Tyr Asn Cys Thr Gly Leu Asn Phe Gly
 180 185 190
 Lys Val Asp Val Gly Arg Tyr Thr Asp Val Ser Thr Arg Tyr Lys Val
 195 200 205
 Ser Thr Ser Pro Leu Thr Lys Gln Leu Pro Thr Leu Ile Leu Phe Gln
 210 215 220
 Gly Gly Lys Glu Ala Met Arg Arg Pro Gln Ile Asp Lys Lys Gly Arg
 225 230 235 240
 Ala Val Ser Trp Thr Phe Ser Glu Glu Asn Val Ile Arg Glu Phe Asn
 245 250 255
 Leu Asn Glu Leu Tyr Gln Arg Ala Lys Lys Leu Ser Lys Ala Gly Asp
 260 265 270
 Asn Ile Pro Glu Glu Gln Pro Val Xaa Ser Thr Pro Thr Thr Val Ser
 275 280 285
 Asp Gly Glu Asn Lys Lys Asp Lys
 290 295

 <210> 61
 <211> 100
 <212> PRT
 <213> Homo sapiens

 <400> 61
 Met Arg Ala Phe Arg Lys Asn Lys Thr Leu Gly Tyr Gly Val Pro Met
 1 5 10 15
 Leu Leu Leu Ile Val Gly Gly Ser Phe Gly Leu Arg Glu Phe Ser Gln
 20 25 30
 Ile Arg Tyr Asp Ala Val Lys Ser Lys Met Asp Pro Glu Leu Glu Lys
 35 40 45
 Lys Leu Lys Glu Asn Lys Ile Ser Leu Glu Ser Glu Tyr Glu Lys Ile
 50 55 60
 Lys Asp Ser Lys Phe Asp Asp Trp Lys Asn Ile Arg Gly Pro Arg Pro
 65 70 75 80
 Trp Glu Asp Pro Asp Leu Leu Gln Gly Arg Asn Pro Glu Ser Leu Lys

85

90

95

Thr Lys Thr Thr
100

<210> 62

<211> 47

<212> PRT

<213> Homo sapiens

<400> 62

Met Ile Gln Leu Ile Leu Gln Phe Trp Tyr Leu Phe Ser Met Leu Leu
1 5 10 15

Lys Pro Val Gln Gln Cys Gln His Cys Ser Gln Ile Thr Pro Ser Gly
20 25 30

Thr Met Pro Thr Ser Glu Thr Val Phe Leu Ile Leu Phe Leu Pro
35 40 45

<210> 63

<211> 162

<212> PRT

<213> Homo sapiens

<400> 63

Met Lys Met Val Ala Pro Trp Thr Arg Phe Tyr Ser Asn Ser Cys Cys
1 5 10 15

Leu Cys Cys His Val Arg Thr Gly Thr Ile Leu Leu Gly Val Trp Tyr
20 25 30

Leu Ile Ile Asn Ala Val Val Leu Leu Ile Leu Leu Ser Ala Leu Ala
35 40 45

Asp Pro Asp Gln Tyr Asn Phe Ser Ser Ser Glu Leu Gly Gly Asp Phe
50 55 60

Glu Phe Met Asp Asp Ala Asn Met Cys Ile Ala Ile Ala Ile Ser Leu
65 70 75 80

Leu Met Ile Leu Ile Cys Ala Met Ala Thr Tyr Gly Ala Tyr Lys Gln
85 90 95

Arg Ala Ala Gly Ile Ile Pro Phe Phe Cys Tyr Gln Ile Phe Asp Phe
100 105 110

Ala Leu Asn Met Leu Val Ala Ile Thr Val Leu Ile Tyr Pro Asn Ser
115 120 125

Ile Gln Glu Tyr Ile Arg Gln Leu Pro Pro Asn Phe Pro Tyr Arg Asp
130 135 140

Asp Val Met Cys Ser Glu Ser Tyr Leu Phe Gly Pro Tyr Tyr Ser Ser
145 150 155 160

Val Tyr

<210> 64
 <211> 335
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (35)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (297)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 64
 Met Arg Gly Leu Gly Leu Trp Leu Leu Gly Ala Met Met Leu Pro Ala
 1 5 10 15
 Ile Ala Pro Ser Arg Pro Trp Ala Leu Met Glu Gln Tyr Glu Val Val
 20 25 30
 Leu Pro Xaa Arg Leu Pro Gly Pro Arg Val Arg Arg Ala Leu Pro Ser
 35 40 45
 His Leu Gly Leu His Pro Glu Arg Val Ser Tyr Val Leu Gly Ala Thr
 50 55 60
 Gly His Asn Phe Thr Leu His Leu Arg Lys Asn Arg Asp Leu Leu Gly
 65 70 75 80
 Ser Gly Tyr Thr Glu Thr Tyr Thr Ala Ala Asn Gly Ser Glu Val Thr
 85 90 95
 Glu Gln Pro Arg Gly Gln Asp His Cys Phe Tyr Gln Gly His Val Glu
 100 105 110
 Gly Tyr Pro Asp Ser Ala Ala Ser Leu Ser Thr Cys Ala Gly Leu Arg
 115 120 125
 Gly Phe Phe Gln Val Gly Ser Asp Leu His Leu Ile Glu Pro Leu Asp
 130 135 140
 Glu Gly Gly Glu Gly Gly Arg His Ala Val Tyr Gln Ala Glu His Leu
 145 150 155 160
 Leu Gln Thr Ala Gly Thr Cys Gly Val Ser Asp Asp Ser Leu Gly Ser
 165 170 175
 Leu Leu Gly Pro Arg Thr Ala Ala Val Phe Arg Pro Arg Pro Gly Asp
 180 185 190
 Ser Leu Pro Ser Arg Glu Thr Arg Tyr Val Glu Leu Tyr Val Val Val
 195 200 205

Asp Asn Ala Glu Phe Gln Met Leu Gly Ser Glu Ala Ala Val Arg His
210 215 220

Arg Val Leu Glu Val Val Asn His Val Asp Lys Leu Tyr Gln Lys Leu
225 230 235 240

Asn Phe Arg Val Val Leu Val Gly Leu Glu Ile Trp Asn Ser Gln Asp
245 250 255

Arg Phe His Val Ser Pro Asp Pro Ser Val Thr Leu Glu Asn Leu Leu
260 265 270

Thr Trp Gln Ala Arg Gln Arg Thr Arg Arg His Leu His Asp Asn Val
275 280 285

Gln Leu Ile Thr Gly Val Asp Phe Xaa Gly Thr Thr Val Gly Phe Ala
290 295 300

Arg Val Ser Thr Met Cys Ser His Ser Ser Gly Ala Val Asn Gln Asp
305 310 315 320

His Ser Lys Asn Pro Val Gly Val Ala Cys Thr Met Ala His Glu
325 330 335

<210> 65

<211> 356

<212> PRT

<213> Homo sapiens

<400> 65

Met Asp Tyr Arg Gly Gly Asp Gly Thr Ser Met Asp Tyr Arg Gly Arg
1 5 10 15

Glu Ala Pro His Met Asn Tyr Arg Asp Arg Asp Ala His Ala Val Asp
20 25 30

Phe Arg Gly Arg Asp Ala Pro Pro Ser Asp Phe Arg Gly Arg Gly Thr
35 40 45

Tyr Asp Leu Asp Phe Arg Gly Arg Asp Gly Ser His Ala Asp Phe Arg
50 55 60

Gly Arg Asp Leu Ser Asp Leu Asp Phe Arg Ala Arg Glu Gln Ser Arg
65 70 75 80

Ser Asp Phe Arg Asn Arg Asp Val Ser Asp Leu Asp Phe Arg Asp Lys
85 90 95

Asp Gly Thr Gln Val Asp Phe Arg Gly Arg Gly Ser Gly Thr Thr Asp
100 105 110

Leu Asp Phe Arg Asp Arg Asp Thr Pro His Ser Asp Phe Arg Gly Arg
115 120 125

His Arg Ser Arg Thr Asp Gln Asp Phe Arg Gly Arg Glu Met Gly Ser
130 135 140

Cys Met Glu Phe Lys Asp Arg Glu Met Pro Pro Val Asp Pro Asn Ile
 145 150 155 160
 Leu Asp Tyr Ile Gln Pro Ser Thr Gln Asp Arg Glu His Ser Gly Met
 165 170 175
 Asn Val Asn Arg Arg Glu Glu Ser Thr His Asp His Thr Ile Glu Arg
 180 185 190
 Pro Ala Phe Gly Ile Gln Lys Gly Glu Phe Glu His Ser Glu Thr Arg
 195 200 205
 Glu Gly Glu Thr Gln Gly Val Ala Phe Glu His Glu Ser Pro Ala Asp
 210 215 220
 Phe Gln Asn Ser Gln Ser Pro Val Gln Asp Gln Asp Lys Ser Gln Leu
 225 230 235 240
 Ser Gly Arg Glu Glu Gln Ser Ser Asp Ala Gly Leu Phe Lys Glu Glu
 245 250 255
 Gly Gly Leu Asp Phe Leu Gly Arg Gln Asp Thr Asp Tyr Arg Ser Met
 260 265 270
 Glu Tyr Arg Asp Val Asp His Arg Leu Pro Gly Ser Gln Met Phe Gly
 275 280 285
 Tyr Gly Gln Ser Lys Ser Phe Pro Glu Gly Lys Thr Ala Arg Asp Ala
 290 295 300
 Gln Arg Asp Leu Gln Asp Gln Asp Tyr Arg Thr Gly Pro Ser Glu Glu
 305 310 315 320
 Lys Pro Ser Arg Leu Ile Arg Leu Ser Gly Val Pro Glu Asp Ala Thr
 325 330 335
 Lys Glu Glu Ile Leu Asn Ala Phe Arg Thr Pro Asp Gly Met Pro Val
 340 345 350
 Lys Asn Cys Ser
 355

<210> 66

<211> 125

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (55)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 66

Met Leu Ser Gln Pro Leu Val Gly Ala Gln Arg Arg Arg Arg Ala Val
 1 5 10 15

Gly Leu Ala Val Val Thr Leu Leu Asn Phe Leu Val Cys Phe Gly Pro
 20 25 30

Tyr Asn Val Ser His Leu Val Gly Tyr His Gln Arg Lys Ser Pro Trp
 35 40 45

Trp Arg Ser Ile Ala Val Xaa Phe Ser Ser Leu Asn Ala Ser Leu Asp
 50 55 60

Pro Leu Leu Phe Tyr Phe Ser Ser Ser Val Val Arg Arg Ala Phe Gly
 65 70 75 80

Arg Gly Leu Gln Val Leu Arg Asn Gln Gly Ser Ser Leu Leu Gly Arg
 85 90 95

Arg Gly Lys Asp Thr Ala Glu Gly Thr Asn Glu Asp Arg Gly Val Gly
 100 105 110

Gln Gly Glu Gly Met Pro Ser Ser Asp Phe Thr Thr Glu
 115 120 125

<210> 67

<211> 77

<212> PRT

<213> Homo sapiens

<400> 67

Met Arg Leu Val Phe Phe Phe Gly Val Ser Ile Ile Leu Val Leu Gly
 1 5 10 15

Ser Thr Phe Val Ala Tyr Leu Pro Asp Tyr Arg Cys Thr Gly Cys Pro
 20 25 30

Arg Ala Trp Asp Gly Met Lys Glu Trp Ser Arg Arg Glu Ala Glu Arg
 35 40 45

Leu Val Lys Tyr Arg Glu Ala Asn Gly Leu Pro Ile Met Glu Ser Asn
 50 55 60

Cys Phe Asp Pro Ser Lys Ile Gln Leu Pro Glu Asp Glu
 65 70 75

<210> 68

<211> 121

<212> PRT

<213> Homo sapiens

<400> 68

Met Arg Ile Met Leu Leu Phe Thr Ala Ile Leu Ala Phe Ser Leu Ala
 1 5 10 15

Gln Ser Phe Gly Ala Val Cys Lys Glu Pro Gln Glu Glu Val Val Pro
 20 25 30

Gly Gly Gly Arg Ser Lys Arg Asp Pro Asp Leu Tyr Gln Leu Leu Gln
 35 40 45

Arg Leu Phe Lys Ser His Ser Ser Leu Glu Gly Leu Leu Lys Ala Leu
50 55 60

Ser Gln Ala Ser Thr Asp Pro Lys Glu Ser Thr Ser Pro Glu Lys Arg
65 70 75 80

Asp Met His Asp Phe Phe Val Gly Leu Met Gly Lys Arg Ser Val Gln
85 90 95

Pro Asp Ser Pro Thr Asp Val Asn Gln Glu Asn Val Pro Ser Phe Gly
100 105 110

Ile Leu Lys Tyr Pro Pro Arg Ala Glu
115 120

<210> 69

<211> 26

<212> PRT

<213> Homo sapiens

<400> 69

Met Val Val Met Glu Val Leu Met Thr Met Val Ala Ile Ile Ile Thr
1 5 10 15

Ala Met Gly Met Met Ala Leu Met Thr Glu
20 25

<210> 70

<211> 235

<212> PRT

<213> Homo sapiens

<400> 70

Met Pro Trp Val Leu Leu Leu Leu Thr Leu Leu Thr His Ser Ala Val
1 5 10 15

Ser Val Val Gln Ala Gly Leu Thr Gln Pro Pro Ser Val Ser Lys Asp
20 25 30

Leu Arg Gln Thr Ala Thr Leu Thr Cys Thr Gly Asn Asn Asn Asn Val
35 40 45

Gly Asp Gln Gly Ala Ala Trp Leu Gln Gln His Gln Gly His Pro Pro
50 55 60

Lys Leu Leu Ser Tyr Arg Asn Asn Asn Arg Pro Ser Gly Ile Ser Glu
65 70 75 80

Arg Leu Ser Ala Ser Arg Ser Gly Ala Thr Ser Ser Leu Thr Ile Thr
85 90 95

Gly Leu Gln Pro Glu Asp Glu Ala Asp Tyr Tyr Cys Ala Ala Tyr Asp
100 105 110

Ser Ser Leu Ala Val Trp Met Phe Gly Gly Gly Thr Lys Leu Thr Val

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115
Leu Gly Gln Pro Lys Ala Ala Pro Ser Val Thr Leu Phe Pro Pro Ser
130 135 140

Ser Glu Glu Leu Gln Ala Asn Lys Ala Thr Leu Val Cys Leu Ile Ser
145 150 155 160

Asp Phe Tyr Pro Gly Ala Val Thr Val Ala Trp Lys Ala Asp Ser Ser
165 170 175

Pro Val Lys Ala Gly Val Glu Thr Thr Thr Pro Ser Lys Gln Ser Asn
180 185 190

Asn Lys Tyr Ala Ala Ser Ser Tyr Leu Ser Leu Thr Pro Glu Gln Trp
195 200 205

Lys Ser His Arg Ser Tyr Ser Cys Gln Val Thr His Glu Gly Ser Thr
210 215 220

Val Glu Lys Thr Val Ala Pro Thr Glu Cys Ser
225 230 235

<210> 71
<211> 217
<212> PRT
<213> Homo sapiens

<400> 71
Met Asp Ser Gln Gln Ala Ser Gly Thr Ile Val Gln Ile Val Ile Asn
1 5 10 15

Asn Lys His Lys His Gly Gln Val Cys Val Ser Asn Gly Lys Thr Tyr
20 25 30

Ser His Gly Glu Ser Trp His Pro Asn Leu Arg Ala Phe Gly Ile Val
35 40 45

Glu Cys Val Leu Cys Thr Cys Asn Val Thr Lys Gln Glu Cys Lys Lys
50 55 60

Ile His Cys Pro Asn Arg Tyr Pro Cys Lys Tyr Pro Gln Lys Ile Asp
65 70 75 80

Gly Lys Cys Cys Lys Val Cys Pro Glu Glu Leu Pro Gly Gln Ser Phe
85 90 95

Asp Asn Lys Gly Tyr Phe Cys Gly Glu Glu Thr Met Pro Val Tyr Glu
100 105 110

Ser Val Phe Met Glu Asp Gly Glu Thr Thr Arg Lys Ile Ala Leu Glu
115 120 125

Thr Glu Arg Pro Pro Gln Val Glu Val His Val Trp Thr Ile Arg Lys
130 135 140

Gly Ile Leu Gln His Phe His Ile Glu Lys Ile Ser Lys Arg Met Phe

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<210> 72
<211> 492
<212> PRT
<213> Homo sapiens
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<400> 72
Met Lys Ala Phe His Thr Phe Cys Val Val Leu Leu Val Phe Gly Ser
  1                               10                      15

Val Ser Glu Ala Lys Phe Asp Asp Phe Glu Asp Glu Glu Asp Ile Val
      20                      25                      30

Glu Tyr Asp Asp Asn Asp Phe Ala Glu Phe Glu Asp Val Met Glu Asp
      35                      40                      45

Ser Val Thr Glu Ser Pro Gln Arg Val Ile Ile Thr Glu Asp Asp Glu
      50                      55                      60

Asp Glu Thr Thr Val Glu Leu Glu Gly Gln Asp Glu Asn Gln Glu Gly
      65                      70                      75                      80

Asp Phe Glu Asp Ala Asp Thr Gln Glu Gly Asp Thr Glu Ser Glu Pro
      85                      90                      95

Tyr Asp Asp Glu Glu Phe Glu Gly Tyr Glu Asp Lys Pro Asp Thr Ser
      100                     105                     110

Ser Ser Lys Asn Lys Asp Pro Ile Thr Ile Val Asp Val Pro Ala His
      115                     120                     125

Leu Gln Asn Ser Trp Glu Ser Tyr Tyr Leu Glu Ile Leu Met Val Thr
      130                     135                     140

Gly Leu Leu Ala Tyr Ile Met Asn Tyr Ile Ile Gly Lys Asn Lys Asn
      145                     150                     155                     160

Ser Arg Leu Ala Gln Ala Trp Phe Asn Thr His Arg Glu Leu Leu Glu
      165                     170                     175

Ser Asn Phe Thr Leu Val Gly Asp Asp Gly Thr Asn Lys Glu Ala Thr
      180                     185                     190

Ser Thr Gly Lys Leu Asn Gln Glu Asn Glu His Ile Tyr Asn Leu Trp

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195	200	205
Cys Ser Gly Arg Val	Cys Cys Glu Gly Met Leu	Ile Gln Leu Arg Phe
210	215	220
Leu Lys Arg Gln Asp	Leu Leu Asn Val Leu	Ala Arg Met Met Arg Pro
225	230	235 240
Val Ser Asp Gln Val	Gln Ile Lys Val Thr	Met Asn Asp Glu Asp Met
	245	250 255
Asp Thr Tyr Val Phe	Ala Val Gly Thr Arg	Lys Ala Leu Val Arg Leu
	260	265 270
Gln Lys Glu Met Gln	Asp Leu Ser Glu Phe	Cys Ser Asp Lys Pro Lys
	275	280 285
Ser Gly Ala Lys Tyr	Gly Leu Pro Asp Ser	Leu Ala Ile Leu Ser Glu
	290	295 300
Met Gly Glu Val Thr	Asp Gly Met Met Asp	Thr Lys Met Val His Phe
	305	310 315 320
Leu Thr His Tyr Ala	Asp Lys Ile Glu Ser	Val His Phe Ser Asp Gln
	325	330 335
Phe Ser Gly Pro Lys	Ile Met Gln Glu Glu	Gly Gln Pro Leu Lys Leu
	340	345 350
Pro Asp Thr Lys Arg	Thr Leu Leu Phe Thr	Phe Asn Val Pro Gly Ser
	355	360 365
Gly Asn Thr Tyr Pro	Lys Asp Met Glu Ala	Leu Leu Pro Leu Met Asn
	370	375 380
Met Val Ile Tyr Ser	Ile Asp Lys Ala Lys	Lys Phe Arg Leu Asn Arg
	385	390 395 400
Glu Gly Lys Gln Lys	Ala Asp Lys Asn Arg	Ala Arg Val Glu Glu Asn
	405	410 415
Phe Leu Lys Leu Thr	His Val Gln Arg Gln	Glu Ala Ala Gln Ser Arg
	420	425 430
Arg Glu Glu Lys Lys	Arg Ala Glu Lys Glu	Arg Ile Met Asn Glu Glu
	435	440 445
Asp Pro Glu Lys Gln	Arg Arg Leu Glu Glu	Ala Ala Leu Arg Arg Glu
	450	455 460
Gln Lys Lys Leu Glu	Lys Lys Gln Met Lys	Met Lys Gln Ile Lys Val
	465	470 475 480
Lys Ala His Val Lys	Pro Ser Gln Arg Phe	Glu Phe
	485	490

<211> 36
 <212> PRT
 <213> Homo sapiens

<400> 73
 Met Leu Phe Leu Cys Leu Leu Pro Ser Leu Phe Pro Pro Gly Leu Pro
 1 5 10 15
 Thr Thr His Tyr Ile Thr Ser Ile Cys Asn Gln Ser Cys Tyr His His
 20 25 30
 Cys Ala Arg Ala
 35

<210> 74
 <211> 74
 <212> PRT
 <213> Homo sapiens
 <220>
 <221> SITE
 <222> (7)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (71)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 74
 Met Ala Glu Leu Leu Leu Xaa Val Leu Ser Val Gln Ser Ala Val His
 1 5 10 15
 Glu Val Glu Ala Asn Glu Gly Gly Lys Gln Ser His Thr Pro Ala His
 20 25 30
 Arg Gly Trp Asn Arg Arg Ala Ala Glu Val Arg Lys Ala Arg Leu Pro
 35 40 45
 Leu Gly Val Thr Val Gly Pro Arg Cys Arg His Ala Val His Pro Ser
 50 55 60
 Lys Gly Gly Ile Ser Ala Xaa Ala Val Leu
 65 70

<210> 75
 <211> 133
 <212> PRT
 <213> Homo sapiens

<400> 75
 Met Gly Ser Ser Gly Leu Leu Ser Leu Leu Val Leu Phe Val Leu Leu
 1 5 10 15
 Ala Asn Val Gln Gly Pro Gly Leu Thr Asp Trp Leu Phe Pro Arg Arg
 20 25 30

Cys Pro Lys Ile Arg Glu Glu Cys Glu Phe Gln Glu Arg Asp Val Cys
 35 40 45

Thr Lys Asp Arg Gln Cys Gln Asp Asn Lys Lys Cys Cys Val Phe Ser
 50 55 60

Cys Gly Lys Lys Cys Leu Asp Leu Lys Gln Asp Val Cys Glu Met Pro
 65 70 75 80

Lys Glu Thr Gly Pro Cys Leu Ala Tyr Phe Leu His Trp Trp Tyr Asp
 85 90 95

Lys Lys Asp Asn Thr Cys Ser Met Phe Val Tyr Gly Gly Cys Gln Gly
 100 105 110

Asn Asn Asn Asn Phe Gln Ser Lys Ala Asn Cys Leu Asn Thr Cys Lys
 115 120 125

Asn Lys Arg Phe Pro
 130

<210> 76

<211> 298

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (42)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (58)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 76

Met Ala Arg Arg Ser Arg His Arg Leu Leu Leu Leu Leu Arg Tyr
 1 5 10 15

Leu Val Val Ala Leu Gly Tyr His Lys Ala Tyr Gly Phe Ser Ala Pro
 20 25 30

Lys Asp Gln Gln Val Val Thr Ala Val Xaa Tyr Gln Glu Ala Ile Leu
 35 40 45

Ala Cys Lys Thr Pro Lys Lys Thr Val Xaa Ser Arg Leu Glu Trp Lys
 50 55 60

Lys Leu Gly Arg Ser Val Ser Phe Val Tyr Tyr Gln Gln Thr Leu Gln
 65 70 75 80

Gly Asp Phe Lys Asn Arg Ala Glu Met Ile Asp Phe Asn Ile Arg Ile
 85 90 95

Lys Asn Val Thr Arg Ser Asp Ala Gly Lys Tyr Arg Cys Glu Val Ser

100	105	110
Ala Pro Ser Glu Gln Gly Gln Asn Leu Glu Glu Asp Thr Val Thr Leu		
115	120	125
Glu Val Leu Val Ala Pro Ala Val Pro Ser Cys Glu Val Pro Ser Ser		
130	135	140
Ala Leu Ser Gly Thr Val Val Glu Leu Arg Cys Gln Asp Lys Glu Gly		
145	150	155
Asn Pro Ala Pro Glu Tyr Thr Trp Phe Lys Asp Gly Ile Arg Leu Leu		
165	170	175
Glu Asn Pro Arg Leu Gly Ser Gln Ser Thr Asn Ser Ser Tyr Thr Met		
180	185	190
Asn Thr Lys Thr Gly Thr Leu Gln Phe Asn Thr Val Ser Lys Leu Asp		
195	200	205
Thr Gly Glu Tyr Ser Cys Glu Ala Arg Asn Ser Val Gly Tyr Arg Arg		
210	215	220
Cys Pro Gly Lys Arg Met Gln Val Asp Asp Leu Asn Ile Ser Gly Ile		
225	230	235
Ile Ala Ala Val Val Val Val Ala Leu Val Ile Ser Val Cys Gly Leu		
245	250	255
Gly Val Cys Tyr Ala Gln Arg Lys Gly Tyr Phe Ser Lys Glu Thr Ser		
260	265	270
Phe Gln Lys Ser Asn Ser Ser Ser Lys Ala Thr Thr Met Ser Glu Asn		
275	280	285
Asp Phe Lys His Thr Lys Ser Phe Ile Ile		
290	295	

<210> 77

<211> 856

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (52)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (190)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (233)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (595)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (683)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 77

Met	Asp	Ile	Ser	Lys	Gly	Leu	Pro	Gly	Met	Gln	Gly	Gly	Leu	His	Ile
1				5					10					15	

Trp	Ile	Ser	Glu	Asn	Arg	Lys	Met	Val	Pro	Val	Pro	Glu	Gly	Ala	Tyr
			20					25					30		

Gly	Asn	Phe	Phe	Glu	Glu	His	Cys	Tyr	Val	Ile	Leu	His	Val	Pro	Gln
		35					40					45			

Ser	Pro	Lys	Xaa	Thr	Gln	Gly	Ala	Ser	Ser	Asp	Leu	His	Tyr	Trp	Val
	50					55					60				

Gly	Lys	Gln	Ala	Gly	Ala	Glu	Ala	Gln	Gly	Ala	Ala	Glu	Ala	Phe	Gln
	65				70					75					80

Gln	Arg	Leu	Gln	Asp	Glu	Leu	Gly	Gly	Gln	Thr	Val	Leu	His	Arg	Glu
				85					90					95	

Ala	Gln	Gly	His	Glu	Ser	Asp	Cys	Phe	Cys	Ser	Tyr	Phe	Arg	Pro	Gly
			100					105					110		

Ile	Ile	Tyr	Arg	Lys	Gly	Gly	Leu	Ala	Ser	Asp	Leu	Lys	His	Val	Glu
		115					120					125			

Thr	Asn	Leu	Phe	Asn	Ile	Gln	Arg	Leu	Leu	His	Ile	Lys	Gly	Arg	Lys
	130					135						140			

His	Val	Ser	Ala	Thr	Glu	Val	Glu	Leu	Ser	Trp	Asn	Ser	Phe	Asn	Lys
	145				150					155					160

Gly	Asp	Ile	Phe	Leu	Leu	Asp	Leu	Gly	Lys	Met	Met	Ile	Gln	Trp	Asn
			165						170					175	

Gly	Pro	Lys	Thr	Ser	Ile	Ser	Glu	Lys	Ala	Arg	Gly	Leu	Xaa	Leu	Thr
			180					185					190		

Tyr	Ser	Leu	Arg	Asp	Arg	Glu	Arg	Gly	Gly	Gly	Arg	Ala	Gln	Ile	Gly
		195				200						205			

Val	Val	Asp	Asp	Glu	Ala	Lys	Ala	Pro	Asp	Leu	Met	Gln	Ile	Met	Glu
		210				215					220				

Ala	Val	Leu	Gly	Arg	Arg	Val	Gly	Xaa	Leu	Arg	Ala	Ala	Thr	Pro	Ser
		225				230				235					240

Lys	Asp	Ile	Asn	Gln	Leu	Gln	Lys	Ala	Asn	Val	Arg	Leu	Tyr	His	Val
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

245										250										255																																			
Tyr	Glu	Lys	Gly	Lys	Asp	Leu	Val	Val	Leu	Glu	Leu	Ala	Thr	Pro	Pro																																								
			260						265					270																																									
Leu	Thr	Gln	Asp	Leu	Leu	Gln	Glu	Glu	Asp	Phe	Tyr	Ile	Leu	Asp	Gln																																								
		275					280					285																																											
Gly	Gly	Phe	Lys	Ile	Tyr	Val	Trp	Gln	Gly	Arg	Met	Ser	Ser	Leu	Gln																																								
		290				295					300																																												
Glu	Arg	Lys	Ala	Ala	Phe	Ser	Arg	Ala	Val	Gly	Phe	Ile	Gln	Ala	Lys																																								
		305			310					315					320																																								
Gly	Tyr	Pro	Thr	Tyr	Thr	Asn	Val	Glu	Val	Val	Asn	Asp	Gly	Ala	Glu																																								
				325					330					335																																									
Ser	Ala	Ala	Phe	Lys	Gln	Leu	Phe	Arg	Thr	Trp	Ser	Glu	Lys	Arg	Arg																																								
			340					345					350																																										
Arg	Asn	Gln	Lys	Leu	Gly	Gly	Arg	Asp	Lys	Ser	Ile	His	Val	Lys	Leu																																								
		355					360					365																																											
Asp	Val	Gly	Lys	Leu	His	Thr	Gln	Pro	Lys	Leu	Ala	Ala	Gln	Leu	Arg																																								
		370				375					380																																												
Met	Val	Asp	Asp	Gly	Ser	Gly	Lys	Val	Glu	Val	Trp	Cys	Ile	Gln	Asp																																								
		385			390					395					400																																								
Leu	His	Arg	Gln	Pro	Val	Asp	Pro	Lys	Arg	His	Gly	Gln	Leu	Cys	Ala																																								
			405				410					415																																											
Gly	Asn	Cys	Tyr	Leu	Val	Leu	Tyr	Thr	Tyr	Gln	Arg	Leu	Gly	Arg	Val																																								
		420					425					430																																											
Gln	Tyr	Ile	Leu	Tyr	Leu	Trp	Gln	Gly	His	Gln	Ala	Thr	Ala	Asp	Glu																																								
		435					440					445																																											
Ile	Glu	Ala	Leu	Asn	Ser	Asn	Ala	Glu	Glu	Leu	Asp	Val	Met	Tyr	Gly																																								
		450				455					460																																												
Gly	Val	Leu	Val	Gln	Glu	His	Val	Thr	Met	Gly	Ser	Glu	Pro	Pro	His																																								
		465			470					475				480																																									
Phe	Leu	Ala	Ile	Phe	Gln	Gly	Gln	Leu	Val	Ile	Phe	Gln	Glu	Arg	Ala																																								
			485				490					495																																											
Gly	His	His	Gly	Lys	Gly	Gln	Ser	Ala	Ser	Thr	Thr	Arg	Leu	Phe	Gln																																								
			500				505					510																																											
Val	Gln	Gly	Thr	Asp	Ser	His	Asn	Thr	Arg	Thr	Met	Glu	Val	Pro	Ala																																								
		515					520					525																																											
Arg	Ala	Ser	Ser	Leu	Asn	Ser	Ser	Asp	Ile	Phe	Leu	Leu	Val	Thr	Ala																																								
		530				535					540																																												
Ser	Val	Cys	Tyr	Leu	Trp	Phe	Gly	Lys	Gly	Cys	Asn	Gly	Asp	Gln	Arg																																								
		545				550				555				560																																									

<210> 78
 <211> 39
 <212> PRT
 <213> Homo sapiens

<400> 78
 Met Pro Cys Val Phe Cys Tyr Leu Leu Leu Leu Val Gln Phe Thr Tyr
 1 5 10 15
 Thr Phe Thr Leu Ser Asn Pro Asn Ser Ser Ser Arg Pro Asp Ser Asp
 20 25 30
 Phe Asn Phe Leu Lys Ala Ile
 35

<210> 79
 <211> 30
 <212> PRT
 <213> Homo sapiens

<400> 79
 Met Ala Leu Ser Val Leu Val Leu Leu Leu Leu Ala Val Leu Tyr Glu
 1 5 10 15
 Gly Ile Lys Val Gly Lys Ala Ser Cys Ser Thr Arg Tyr Trp
 20 25 30

<210> 80
 <211> 45
 <212> PRT
 <213> Homo sapiens

<400> 80
 Met Pro Ala Leu Val Leu Leu Pro Arg Val Leu Pro Pro Gly Gln Gly
 1 5 10 15
 Glu Val Gln Arg Val Arg Cys Pro Tyr Val Gly Asn Ser Ser Gly Arg
 20 25 30
 Lys Ile Trp Phe Gly Phe Ile Leu Arg Ala Ile Lys His
 35 40 45

<210> 81
 <211> 39
 <212> PRT
 <213> Homo sapiens

<400> 81
 Met Glu Ala Lys Phe Gly Leu Leu Cys Phe Leu Val Ser Thr Pro Trp
 1 5 10 15
 Ala Glu Leu Leu Ser Leu Leu Leu His Leu Thr Gln Val Pro Phe Pro
 20 25 30

Gly Ser Gln Gly Pro Gly Phe
35

<210> 82
<211> 36
<212> PRT
<213> Homo sapiens

<400> 82
Met Leu Ser Phe Lys Leu Leu Leu Leu Ala Val Ala Leu Gly Phe Phe
1 5 10 15

Glu Gly Asp Ala Lys Phe Gly Glu Arg Asn Glu Gly Ser Gly Gln Gly
20 25 30

Gly Glu Gly Ala
35

<210> 83
<211> 293
<212> PRT
<213> Homo sapiens

<400> 83
Leu Ala Pro Leu Ile Ala Leu Val Tyr Ser Val Pro Arg Leu Ser Arg
1 5 10 15

Trp Leu Ala Gln Pro Tyr Tyr Leu Leu Ser Ala Leu Leu Ser Ala Ala
20 25 30

Phe Leu Leu Val Arg Lys Leu Pro Pro Leu Cys His Gly Leu Pro Thr
35 40 45

Gln Arg Glu Asp Gly Asn Pro Cys Asp Phe Asp Trp Arg Glu Val Glu
50 55 60

Ile Leu Met Phe Leu Ser Ala Ile Val Met Met Lys Asn Arg Arg Ser
65 70 75 80

Ile Thr Val Glu Gln His Ile Gly Asn Ile Phe Met Phe Ser Lys Val
85 90 95

Ala Asn Thr Ile Leu Phe Phe Arg Leu Asp Ile Arg Met Gly Leu Leu
100 105 110

Tyr Ile Thr Leu Cys Ile Val Phe Leu Met Thr Cys Lys Pro Pro Leu
115 120 125

Tyr Met Gly Pro Glu Tyr Ile Lys Tyr Phe Asn Asp Lys Thr Ile Asp
130 135 140

Glu Glu Leu Glu Arg Asp Lys Arg Val Thr Trp Ile Val Glu Phe Phe
145 150 155 160

Ala Asn Trp Ser Asn Asp Cys Gln Ser Phe Ala Pro Ile Tyr Ala Asp
165 170 175

Leu Ser Leu Lys Tyr Asn Cys Thr Gly Leu Asn Phe Gly Lys Val Asp
 180 185 190

Val Gly Arg Tyr Thr Asp Val Ser Thr Arg Tyr Lys Val Ser Thr Ser
 195 200 205

Pro Leu Thr Lys Gln Leu Pro Thr Leu Ile Leu Phe Gln Gly Gly Lys
 210 215 220

Glu Ala Met Arg Arg Pro Gln Ile Asp Lys Lys Gly Arg Ala Val Ser
 225 230 235 240

Trp Thr Phe Ser Glu Glu Asn Val Ile Arg Glu Phe Asn Leu Asn Glu
 245 250 255

Leu Tyr Gln Arg Ala Lys Lys Leu Ser Lys Ala Gly Asp Asn Ile Pro
 260 265 270

Glu Glu Gln Pro Val Ala Ser Thr Pro Thr Thr Val Ser Asp Gly Glu
 275 280 285

Asn Lys Lys Asp Lys
 290

<210> 84
 <211> 143
 <212> PRT
 <213> Homo sapiens

<400> 84
 Met Arg Gly Leu Gly Leu Trp Leu Leu Gly Ala Met Met Leu Pro Ala
 1 5 10 15

Ile Ala Pro Ser Arg Pro Trp Ala Leu Met Glu Gln Tyr Glu Val Val
 20 25 30

Leu Pro Trp Arg Leu Pro Gly Pro Arg Val Arg Arg Ala Leu Pro Ser
 35 40 45

His Leu Gly Leu His Pro Glu Arg Val Ser Tyr Val Leu Gly Ala Thr
 50 55 60

Gly His Asn Phe Thr Leu His Leu Arg Lys Asn Arg Asp Leu Leu Gly
 65 70 75 80

Ser Gly Tyr Thr Glu Thr Tyr Thr Ala Ala Asn Gly Ser Glu Val Thr
 85 90 95

Glu Gln Pro Arg Gly Gln Asp His Cys Phe Tyr Gln Gly His Leu Glu
 100 105 110

Gly Thr Gly Leu Ser Arg Gln Pro Gln His Leu Cys Arg Pro Gln Gly
 115 120 125

Phe Leu Pro Gly Gly Val Arg Pro Ala Pro Asp Arg Ala Pro Gly
 130 135 140

<210> 85
 <211> 121
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (67)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (89)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 85
 Met Arg Ile Met Leu Leu Phe Thr Ala Ile Leu Ala Phe Ser Leu Ala
 1 5 10 15
 Gln Ser Phe Gly Ala Val Cys Lys Glu Pro Gln Glu Glu Val Val Pro
 20 25 30
 Gly Gly Gly Arg Ser Lys Arg Asp Pro Asp Leu Tyr Gln Leu Leu Gln
 35 40 45
 Arg Leu Phe Lys Ser His Ser Ser Leu Glu Gly Leu Leu Lys Ala Leu
 50 55 60
 Ser Gln Xaa Ser Thr Asp Pro Lys Glu Ser Thr Ser Pro Glu Lys Arg
 65 70 75 80
 Asp Met His Asp Phe Phe Val Gly Xaa Met Gly Lys Arg Ser Val Gln
 85 90 95
 Pro Asp Ser Pro Thr Asp Val Asn Gln Glu Asn Val Pro Ser Phe Gly
 100 105 110
 Ile Leu Lys Tyr Pro Pro Arg Ala Glu
 115 120

<210> 86
 <211> 25
 <212> PRT
 <213> Homo sapiens

<400> 86
 Met Val Leu Leu Met Val Trp Val Val Met Ala Val Val Val Glu Ala
 1 5 10 15
 Val Glu Val Thr Met Gly Lys Ala Ala
 20 25

<210> 87
 <211> 4

<212> PRT
<213> Homo sapiens

<400> 87
Ser Leu His Ala
1

<210> 88
<211> 235
<212> PRT
<213> Homo sapiens

<400> 88
Met Pro Trp Val Leu Leu Leu Leu Thr Leu Leu Thr His Ser Ala Val
1 5 10 15
Ser Val Val Gln Ala Gly Leu Thr Gln Pro Pro Ser Val Ser Lys Asp
20 25 30
Leu Arg Gln Thr Ala Thr Leu Thr Cys Thr Gly Asn Asn Asn Val
35 40 45
Gly Asp Gln Gly Ala Ala Trp Leu Gln Gln His Gln Gly His Pro Pro
50 55 60
Lys Leu Leu Ser Tyr Arg Asn Asn Asn Arg Pro Ser Gly Ile Ser Glu
65 70 75 80
Arg Leu Ser Ala Ser Arg Ser Gly Ala Thr Ser Ser Leu Thr Ile Thr
85 90 95
Gly Leu Gln Pro Glu Asp Glu Ala Asp Tyr Tyr Cys Ala Ala Tyr Asp
100 105 110
Ser Ser Leu Ala Val Trp Met Phe Gly Gly Gly Thr Lys Leu Thr Val
115 120 125
Leu Gly Gln Pro Lys Ala Ala Pro Ser Val Thr Leu Phe Pro Pro Ser
130 135 140
Ser Glu Glu Leu Gln Ala Asn Lys Ala Thr Leu Val Cys Leu Ile Ser
145 150 155 160
Asp Phe Tyr Pro Gly Ala Val Thr Val Ala Trp Lys Ala Asp Ser Ser
165 170 175
Pro Val Lys Ala Gly Val Glu Thr Thr Thr Pro Ser Lys Gln Ser Asn
180 185 190
Asn Lys Tyr Ala Ala Ser Ser Tyr Leu Ser Leu Thr Pro Glu Gln Trp
195 200 205
Lys Ser His Lys Ser Tyr Ser Cys Gln Val Thr His Glu Gly Ser Thr
210 215 220
Val Glu Lys Thr Val Ala Pro Thr Glu Cys Ser
225 230 235

<210> 89
 <211> 87
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (11)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (86)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 89
 Met Ser Leu Asn Val Leu Leu Ala Leu Phe Xaa Leu Leu Leu Ala Lys
 1 5 10 15
 Glu Ser Ser Cys Arg Ile Pro Ala Ala Arg Gly Asp Pro Leu Val Leu
 20 25 30
 Glu Arg Pro Pro Pro Arg Trp Glu Leu Gln Leu Leu Val Pro Phe Ser
 35 40 45
 Glu Gly Leu Ile Ser Ser Leu Ala Val Ile Met Gly His Ser Leu Phe
 50 55 60
 Pro Gly Val Glu Ile Gly Tyr Pro Ala His Lys Phe His Asn Asn Asn
 65 70 75 80
 Thr Ser Arg Lys His Xaa Val
 85

<210> 90
 <211> 106
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (22)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 90
 Met Ala Leu His Gly Phe His Phe Asp Leu Phe His Phe His Leu Leu
 1 5 10 15
 Leu Phe Gln Leu Leu Xaa Leu Thr Pro Gln Cys Ser Leu Leu Gln Pro
 20 25 30
 Ala Leu Phe Leu Arg Ile Phe Leu Ile His Asp Ser Leu Leu Cys
 35 40 45
 Ser Phe Phe Leu Leu Pro Pro Arg Leu Cys Cys Phe Leu Ser Leu His


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<210> 91
<211> 59
<212> PRT
<213> Homo sapiens
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<210> 92
<211> 32
<212> PRT
<213> Homo sapiens
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<210> 93
<211> 178
<212> PRT
<213> Homo sapiens
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<400> 93
Phe Ser Val Thr Asn Asn Thr Glu Cys Gly Lys Leu Leu Glu Glu Ile
  1                      5                      10                      15
Lys Cys Ala Leu Cys Ser Pro His Ser Gln Ser Leu Phe His Ser Pro
      20                      25                      30

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Glu Arg Glu Val Leu Glu Arg Asp Leu Val Leu Pro Leu Leu Cys Lys
 35 40 45

Asp Tyr Cys Lys Glu Phe Phe Tyr Thr Cys Arg Gly His Ile Pro Gly
 50 55 60

Phe Leu Gln Thr Thr Ala Asp Glu Phe Cys Phe Tyr Tyr Ala Arg Lys
 65 70 75 80

Asp Gly Gly Leu Cys Phe Pro Asp Phe Pro Arg Lys Gln Val Arg Gly
 85 90 95

Pro Ala Ser Asn Tyr Leu Asp Gln Met Glu Glu Tyr Asp Lys Val Glu
 100 105 110

Glu Ile Ser Arg Lys His Lys His Asn Cys Phe Cys Ile Gln Glu Val
 115 120 125

Val Ser Gly Leu Arg Gln Pro Val Gly Ala Leu His Ser Gly Asp Gly
 130 135 140

Ser Gln Arg Leu Phe Ile Leu Glu Lys Glu Gly Tyr Val Lys Ile Leu
 145 150 155 160

Thr Pro Glu Gly Glu Ile Phe Lys Glu Pro Tyr Leu Asp Ile His Lys
 165 170 175

Leu Val

<210> 94

<211> 216

<212> PRT

<213> Homo sapiens

<400> 94

Asp Gly Asn Pro Cys Asp Phe Asp Trp Arg Glu Val Glu Ile Leu Met
 1 5 10 15

Phe Leu Ser Ala Ile Val Met Met Lys Asn Arg Arg Ser Ile Thr Val
 20 25 30

Glu Gln His Ile Gly Asn Ile Phe Met Phe Ser Lys Val Ala Asn Thr
 35 40 45

Ile Leu Phe Phe Arg Leu Asp Ile Arg Met Gly Leu Leu Tyr Ile Thr
 50 55 60

Leu Cys Ile Val Phe Leu Met Thr Cys Lys Pro Pro Leu Tyr Met Gly
 65 70 75 80

Pro Glu Tyr Ile Lys Tyr Phe Asn Asp Lys Thr Ile Asp Glu Glu Leu
 85 90 95

Glu Arg Asp Lys Arg Val Thr Trp Ile Val Glu Phe Phe Ala Asn Trp
 100 105 110

Ser Asn Asp Cys Gln Ser Phe Ala Pro Ile Tyr Ala Asp Leu Ser Leu
 115 120 125

Lys Tyr Asn Cys Thr Gly Leu Asn Phe Gly Lys Val Asp Val Gly Arg
 130 135 140

Tyr Thr Asp Val Ser Thr Arg Tyr Lys Val Ser Thr Ser Pro Leu Thr
 145 150 155 160

Lys Gln Leu Pro Thr Leu Ile Leu Phe Gln Gly Gly Lys Glu Ala Met
 165 170 175

Arg Arg Pro Gln Ile Asp Lys Lys Gly Arg Ala Val Ser Trp Thr Phe
 180 185 190

Ser Glu Glu Asn Val Ile Arg Glu Phe Asn Leu Asn Glu Leu Tyr Gln
 195 200 205

Arg Ala Lys Lys Leu Ser Lys Ala
 210 215

<210> 95

<211> 196

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (141)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 95

Gln Leu Ile Val Thr Ala Arg Thr Thr Arg Gly Leu Asp Pro Leu Phe
 1 5 10 15

Gly Met Cys Glu Lys Phe Leu Gln Glu Val Asp Phe Phe Gln Arg Tyr
 20 25 30

Phe Ile Ala Asp Leu Pro His Leu Gln Asp Ser Phe Val Asp Lys Leu
 35 40 45

Leu Asp Leu Met Pro Arg Leu Met Thr Ser Lys Pro Ala Glu Val Val
 50 55 60

Lys Ile Leu Gln Thr Met Leu Arg Gln Ser Ala Phe Leu His Leu Pro
 65 70 75 80

Leu Pro Glu Gln Ile His Lys Ala Ser Ala Thr Ile Ile Glu Pro Ala
 85 90 95

Gly Glu Phe Arg Gln Pro Phe Ala Val Tyr Leu Trp Val Gly Gly Cys
 100 105 110

Pro Gly Met Leu Met Gln Pro Trp Ser Met Cys Arg Ile Leu Arg Thr
 115 120 125

Leu Leu Arg Ser Arg Val Leu Tyr Pro Asp Gly Gln Xaa Ser Asp Asp
 130 135 140

Ser Pro Gln Ala Cys Arg Leu Pro Glu Ser Trp Pro Arg Ala Ala Pro
 145 150 155 160

Ala His His Ser Gly Leu Ser Leu Pro His Arg Leu Asp Arg Gly Met
 165 170 175

Pro Gly Gly Ser Glu Ala Ala Ala Gly Leu Gln Leu Gln Cys Ser His
 180 185 190

Ser Lys Met Pro
 195

<210> 96

<211> 255

<212> PRT

<213> Homo sapiens

<400> 96

Ile His Leu Ala Leu Val Glu Leu Leu Lys Asn Leu Thr Lys Tyr Pro
 1 5 10 15

Thr Asp Arg Asp Ser Ile Trp Lys Cys Leu Lys Phe Leu Gly Ser Arg
 20 25 30

His Pro Thr Leu Val Leu Pro Leu Val Pro Glu Leu Leu Ser Thr His
 35 40 45

Pro Phe Phe Asp Thr Ala Glu Pro Asp Met Asp Asp Pro Ala Tyr Ile
 50 55 60

Ala Val Leu Val Leu Ile Phe Asn Ala Ala Lys Thr Cys Pro Thr Met
 65 70 75 80

Pro Ala Leu Phe Ser Asp His Thr Phe Arg His Tyr Ala Tyr Leu Arg
 85 90 95

Asp Ser Leu Ser His Leu Val Pro Ala Leu Arg Leu Pro Gly Arg Lys
 100 105 110

Leu Val Ser Ser Ala Val Ser Pro Ser Ile Ile Pro Gln Glu Asp Pro
 115 120 125

Ser Gln Gln Phe Leu Gln Gln Ser Leu Glu Arg Val Tyr Ser Leu Gln
 130 135 140

His Leu Asp Pro Gln Gly Ala Gln Glu Leu Leu Glu Phe Thr Ile Arg
 145 150 155 160

Asp Leu Gln Arg Leu Gly Glu Leu Gln Ser Glu Leu Ala Gly Val Ala
 165 170 175

Asp Phe Ser Ala Thr Tyr Leu Arg Cys Gln Leu Leu Leu Ile Lys Ala
 180 185 190

Leu Gln Glu Lys Leu Trp Asn Val Ala Ala Pro Leu Tyr Leu Lys Gln
 195 200 205

Ser Asp Leu Ala Ser Ala Ala Ala Lys Gln Ile Met Glu Glu Thr Tyr
 210 215 220

Lys Met Glu Phe Met Tyr Ser Gly Val Glu Asn Lys Gln Val Val Ile
 225 230 235 240

Ile His His Met Arg Leu Gln Ala Lys Ala Leu Gln Leu Ile Val
 245 250 255

<210> 97
 <211> 137
 <212> PRT
 <213> Homo sapiens

<400> 97
 Arg Phe Tyr Ser Asn Ser Cys Cys Leu Cys Cys His Val Arg Thr Gly
 1 5 10 15

Thr Ile Leu Leu Gly Val Trp Tyr Leu Ile Ile Asn Ala Val Val Leu
 20 25 30

Leu Ile Leu Leu Ser Ala Leu Ala Asp Pro Asp Gln Tyr Asn Phe Ser
 35 40 45

Ser Ser Glu Leu Gly Gly Asp Phe Glu Phe Met Asp Asp Ala Asn Met
 50 55 60

Cys Ile Ala Ile Ala Ile Ser Leu Leu Met Ile Leu Ile Cys Ala Met
 65 70 75 80

Ala Thr Tyr Gly Ala Tyr Lys Gln Arg Ala Ala Gly Ile Ile Pro Phe
 85 90 95

Phe Cys Tyr Gln Ile Phe Asp Phe Ala Leu Asn Met Leu Val Ala Ile
 100 105 110

Thr Val Leu Ile Tyr Pro Asn Ser Ile Gln Glu Tyr Ile Arg Gln Leu
 115 120 125

Pro Pro Asn Phe Pro Tyr Arg Asp Asp
 130 135

<210> 98
 <211> 87
 <212> PRT
 <213> Homo sapiens

<400> 98
 Phe Pro Thr Glu Met Met Ser Cys Ala Val Asn Pro Thr Cys Leu Val
 1 5 10 15

Leu Ile Ile Leu Leu Phe Ile Ser Ile Ile Leu Thr Phe Lys Gly Tyr
 20 25 30

Leu Ile Ser Cys Val Trp Asn Cys Tyr Arg Tyr Ile Asn Gly Arg Asn
 35 40 45

Ser Ser Asp Val Leu Val Tyr Val Thr Ser Asn Asp Thr Thr Val Leu
 50 55 60

Leu Pro Pro Tyr Asp Asp Ala Thr Val Asn Gly Ala Ala Lys Glu Pro
 65 70 75 80

Pro Pro Pro Tyr Val Ser Ala
 85

<210> 99

<211> 97

<212> PRT

<213> Homo sapiens

<400> 99

Ile Ala Pro Ser Arg Pro Trp Ala Leu Met Glu Gln Tyr Glu Val Val
 1 5 10 15

Leu Pro Trp Arg Leu Pro Gly Pro Arg Val Arg Arg Ala Leu Pro Ser
 20 25 30

His Leu Gly Leu His Pro Glu Arg Val Ser Tyr Val Leu Gly Ala Thr
 35 40 45

Gly His Asn Phe Thr Leu His Leu Arg Lys Asn Arg Asp Leu Leu Gly
 50 55 60

Ser Gly Tyr Thr Glu Thr Tyr Thr Ala Ala Asn Gly Ser Glu Val Thr
 65 70 75 80

Glu Gln Pro Arg Gly Gln Asp His Cys Phe Tyr Gln Gly His Leu Glu
 85 90 95

Gly

<210> 100

<211> 240

<212> PRT

<213> Homo sapiens

<400> 100

Pro Asp Ser Ala Ala Ser Leu Ser Thr Cys Ala Gly Leu Arg Gly Phe
 1 5 10 15

Phe Gln Val Gly Ser Asp Leu His Leu Ile Glu Pro Leu Asp Glu Gly
 20 25 30

Gly Glu Gly Gly Arg His Ala Val Tyr Gln Ala Glu His Leu Leu Gln
 35 40 45

Thr Ala Gly Thr Cys Gly Val Ser Asp Asp Ser Leu Gly Ser Leu Leu

50	55	60
Gly Pro Arg Thr Ala Ala Val Phe Arg Pro Arg Pro Gly Asp Ser Leu		
65	70	75 80
Pro Ser Arg Glu Thr Arg Tyr Val Glu Leu Tyr Val Val Val Asp Asn		
	85	90 95
Ala Glu Phe Gln Met Leu Gly Ser Glu Ala Ala Val Arg His Arg Val		
	100	105 110
Leu Glu Val Val Asn His Val Asp Lys Leu Tyr Gln Lys Leu Asn Phe		
	115	120 125
Arg Val Val Leu Val Gly Leu Glu Ile Trp Asn Ser Gln Asp Arg Phe		
	130	135 140
His Val Ser Pro Asp Pro Ser Val Thr Leu Glu Asn Leu Leu Thr Trp		
	145	150 155 160
Gln Ala Arg Gln Arg Thr Arg Arg His Leu His Asp Asn Val Gln Leu		
	165	170 175
Ile Thr Gly Val Asp Phe Thr Gly Thr Thr Val Gly Phe Ala Arg Val		
	180	185 190
Ser Ala Met Cys Ser His Ser Ser Gly Ala Val Asn Gln Asp His Ser		
	195	200 205
Lys Asn Pro Val Gly Val Ala Cys Thr Met Ala His Glu Met Gly His		
	210	215 220
Asn Leu Gly Met Asp His Asp Glu Asn Val Gln Gly Cys Arg Cys Gln		
	225	230 235 240

<210> 101
 <211> 118
 <212> PRT
 <213> Homo sapiens

<400> 101
 Phe Glu Ala Gly Arg Cys Ile Met Ala Arg Pro Ala Leu Ala Pro Ser
 1 5 10 15
 Phe Pro Arg Met Phe Ser Asp Cys Ser Gln Ala Tyr Leu Glu Ser Phe
 20 25 30
 Leu Glu Arg Pro Gln Ser Val Cys Leu Ala Asn Ala Pro Asp Leu Ser
 35 40 45
 His Leu Val Gly Gly Pro Val Cys Gly Asn Leu Phe Val Glu Arg Gly
 50 55 60
 Glu Gln Cys Asp Cys Gly Pro Pro Glu Asp Cys Arg Asn Arg Cys Cys

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<210> 102
<211> 471
<212> PRT
<213> Homo sapiens
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<400> 102
Gly Ser Gln Glu Glu Arg Phe Ala Pro Gly Trp Asn Arg Asp Tyr Pro
 1          5          10          15
Pro Pro Pro Leu Lys Ser His Ala Gln Glu Arg His Ser Gly Asn Phe
          20          25          30
Pro Gly Arg Asp Ser Leu Pro Phe Asp Phe Gln Gly His Ser Gly Pro
          35          40          45
Pro Phe Ala Asn Val Glu Glu His Ser Phe Ser Tyr Gly Ala Arg Asp
          50          55          60
Gly Pro His Gly Asp Tyr Arg Gly Gly Glu Gly Pro Gly His Asp Phe
 65          70          75          80
Arg Gly Gly Asp Phe Ser Ser Ser Asp Phe Gln Ser Arg Asp Ser Ser
          85          90          95
Gln Leu Asp Phe Arg Gly Arg Asp Ile His Ser Gly Asp Phe Arg Asp
          100          105          110
Arg Glu Gly Pro Pro Met Asp Tyr Arg Gly Gly Asp Gly Thr Ser Met
          115          120          125
Asp Tyr Arg Gly Arg Glu Ala Pro His Met Asn Tyr Arg Asp Arg Asp
          130          135          140
Ala His Ala Val Asp Phe Arg Gly Arg Asp Ala Pro Pro Ser Asp Phe
          145          150          155          160
Arg Gly Arg Gly Thr Tyr Asp Leu Asp Phe Arg Gly Arg Asp Gly Ser
          165          170          175
His Ala Asp Phe Arg Gly Arg Asp Leu Ser Asp Leu Asp Phe Arg Ala
          180          185          190
Arg Glu Gln Ser Arg Ser Asp Phe Arg Asn Arg Asp Val Ser Asp Leu
          195          200          205
Asp Phe Arg Asp Lys Asp Gly Thr Gln Val Asp Phe Arg Gly Arg Gly

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210	215	220
Ser Gly Thr Thr Asp Leu Asp Phe Arg Asp Arg Asp Thr Pro His Ser 225 230 235 240		
Asp Phe Arg Gly Arg His Arg Ser Arg Thr Asp Gln Asp Phe Arg Gly 245 250 255		
Arg Glu Met Gly Ser Cys Met Glu Phe Lys Asp Arg Glu Met Pro Pro 260 265 270		
Val Asp Pro Asn Ile Leu Asp Tyr Ile Gln Pro Ser Thr Gln Asp Arg 275 280 285		
Glu His Ser Gly Met Asn Val Asn Arg Arg Glu Glu Ser Thr His Asp 290 295 300		
His Thr Ile Glu Arg Pro Ala Phe Gly Ile Gln Lys Gly Glu Phe Glu 305 310 315 320		
His Ser Glu Thr Arg Glu Gly Glu Thr Gln Gly Val Ala Phe Glu His 325 330 335		
Glu Ser Pro Ala Asp Phe Gln Asn Ser Gln Ser Pro Val Gln Asp Gln 340 345 350		
Asp Lys Ser Gln Leu Ser Gly Arg Glu Glu Gln Ser Ser Asp Ala Gly 355 360 365		
Leu Phe Lys Glu Glu Gly Gly Leu Asp Phe Leu Gly Arg Gln Asp Thr 370 375 380		
Asp Tyr Arg Ser Met Glu Tyr Arg Asp Val Asp His Arg Leu Pro Gly 385 390 395 400		
Ser Gln Met Phe Gly Tyr Gly Gln Ser Lys Ser Phe Pro Glu Gly Lys 405 410 415		
Thr Ala Arg Asp Ala Gln Arg Asp Leu Gln Asp Gln Asp Tyr Arg Thr 420 425 430		
Gly Pro Ser Glu Glu Lys Pro Ser Arg Leu Ile Arg Leu Ser Gly Val 435 440 445		
Pro Glu Asp Ala Thr Lys Glu Glu Ile Leu Asn Ala Phe Arg Thr Pro 450 455 460		
Asp Gly Met Pro Val Lys Asn 465 470		

<210> 103

<211> 125

<212> PRT

<213> Homo sapiens

<400> 103

Gly Leu Gln Asp Ser Ala Arg Gly Gly Ser Gln Glu Glu Arg Phe Ala

1	5	10	15
Pro Gly Trp Asn Arg Asp Tyr Pro Pro Pro Pro Leu Lys Ser His Ala	20	25	30
Gln Glu Arg His Ser Gly Asn Phe Pro Gly Arg Asp Ser Leu Pro Phe	35	40	45
Asp Phe Gln Gly His Ser Gly Pro Pro Phe Ala Asn Val Glu Glu His	50	55	60
Ser Phe Ser Tyr Gly Ala Arg Asp Gly Pro His Gly Asp Tyr Arg Gly	65	70	75
Gly Glu Gly Pro Gly His Asp Phe Arg Gly Gly Asp Phe Ser Ser Ser	85	90	95
Asp Phe Gln Ser Arg Asp Ser Ser Gln Leu Asp Phe Arg Gly Arg Asp	100	105	110
Ile His Ser Gly Asp Phe Arg Asp Arg Glu Gly Pro Pro	115	120	125

<210> 104
 <211> 330
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (7)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (147)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (181)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (190)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (260)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 104
Met Leu Pro Asp Trp Lys Xaa Ser Leu Ile Leu Met Ala Tyr Ile Ile
1 5 10 15

[illegible]

325

330

<210> 105
 <211> 17
 <212> PRT
 <213> Homo sapiens

<400> 105
 Cys Ser Thr Trp Leu Leu Ala Gly Ile Ser Ile Glu Arg Tyr Leu Gly
 1 5 10 15

Val

<210> 106
 <211> 94
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (7)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (41)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (50)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 106
 Cys Thr Ile Val Ile Ile Xaa Gln Tyr Leu Asn Thr Thr Glu Gln Val
 1 5 10 15

Arg Ser Gly Asn Glu Ile Thr Cys Tyr Glu Asn Phe Thr Asp Asn Gln
 20 25 30

Leu Asp Val Val Leu Pro Val Arg Xaa Glu Leu Cys Leu Val Leu Phe
 35 40 45

Phe Xaa Pro Met Ala Val Thr Ile Phe Cys Tyr Trp Arg Phe Val Trp
 50 55 60

Ile Met Leu Ser Gln Pro Leu Val Gly Ala Gln Arg Arg Arg Arg Ala
 65 70 75 80

Val Gly Leu Ala Val Val Thr Leu Leu Asn Phe Leu Val Cys
 85 90

<210> 107
 <211> 143

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (25)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 107

Gly Leu Pro Ala Ala Arg Val Arg Trp Glu Ser Ser Phe Ser Arg Thr
1 5 10 15

Val Val Ala Pro Ser Ala Val Ala Xaa Lys Arg Pro Pro Glu Pro Thr
20 25 30

Thr Pro Trp Gln Glu Asp Pro Glu Pro Glu Asp Glu Asn Leu Tyr Glu
35 40 45

Lys Asn Pro Asp Ser His Gly Tyr Asp Lys Asp Pro Val Leu Asp Val
50 55 60

Trp Asn Met Arg Leu Val Phe Phe Phe Gly Val Ser Ile Ile Leu Val
65 70 75 80

Leu Gly Ser Thr Phe Val Ala Tyr Leu Pro Asp Tyr Arg Cys Thr Gly
85 90 95

Cys Pro Arg Ala Trp Asp Gly Met Lys Glu Trp Ser Arg Arg Glu Ala
100 105 110

Glu Arg Leu Val Lys Tyr Arg Glu Ala Asn Gly Leu Pro Ile Met Glu
115 120 125

Ser Asn Cys Phe Asp Pro Ser Lys Ile Gln Leu Pro Glu Asp Glu
130 135 140

<210> 108

<211> 36

<212> PRT

<213> Homo sapiens

<400> 108

Pro Glu Lys Arg Asp Met His Asp Phe Phe Val Gly Leu Met Gly Lys
1 5 10 15

Arg Ser Val Gln Pro Asp Ser Pro Thr Asp Val Asn Gln Glu Asn Val
20 25 30

Pro Ser Phe Gly
35

<210> 109

<211> 15

<212> PRT

<213> Homo sapiens

<400> 109

Lys Arg Asp Met His Asp Phe Phe Val Gly Leu Met Gly Lys Arg
 1 5 10 15

<210> 110

<211> 10

<212> PRT

<213> Homo sapiens

<400> 110

Asp Met His Asp Phe Phe Val Gly Leu Met
 1 5 10

<210> 111

<211> 16

<212> PRT

<213> Homo sapiens

<400> 111

Glu Trp Glu Ala Thr Glu Glu Met Glu Trp Ile Ile Arg Glu Ala Met
 1 5 10 15

<210> 112

<211> 35

<212> PRT

<213> Homo sapiens

<400> 112

Trp Glu Trp Gly Thr Ile Thr Val Glu Asp Met Val Leu Leu Met Val
 1 5 10 15

Trp Val Val Met Ala Val Val Val Glu Ala Val Glu Val Thr Met Gly
 20 25 30

Lys Ala Ala
 35

<210> 113

<211> 18

<212> PRT

<213> Homo sapiens

<400> 113

Gly Met Gly Gly Tyr Gly Arg Asp Gly Met Asp Asn Gln Gly Gly Tyr
 1 5 10 15

Gly Ser

<210> 114

<211> 43
 <212> PRT
 <213> Homo sapiens

<400> 114
 Gly Met Gly Asn Asn Tyr Ser Gly Gly Tyr Gly Thr Pro Asp Gly Leu
 1 5 10 15
 Gly Gly Tyr Gly Arg Gly Gly Gly Gly Ser Gly Gly Tyr Tyr Gly Gln
 20 25 30
 Gly Gly Met Ser Gly Gly Gly Trp Arg Gly Met
 35 40

<210> 115
 <211> 43
 <212> PRT
 <213> Homo sapiens

<400> 115
 Gly Met Gly Asn Asn Tyr Ser Gly Gly Tyr Gly Thr Pro Asp Gly Leu
 1 5 10 15
 Gly Gly Tyr Gly Arg Gly Gly Gly Gly Ser Gly Gly Tyr Tyr Gly Gln
 20 25 30
 Gly Gly Met Ser Gly Gly Gly Trp Arg Gly Met
 35 40

<210> 116
 <211> 223
 <212> PRT
 <213> Homo sapiens

<400> 116
 Trp Asp Ser Thr Thr Ser Trp Thr Thr Ile Trp Leu Gln Gln Arg Gly
 1 5 10 15
 Asn Ser Ser Val Leu Ser Arg Val Gly Asn Arg Ala Asn Gly Ile Thr
 20 25 30
 Leu Thr Met Asp Tyr Gln Gly Arg Ser Thr Gly Glu Ala Phe Val Gln
 35 40 45
 Phe Ala Ser Lys Glu Ile Ala Glu Asn Ala Leu Gly Lys His Lys Glu
 50 55 60
 Arg Ile Gly His Arg Tyr Ile Glu Ile Phe Arg Ser Ser Arg Ser Glu
 65 70 75 80
 Ile Lys Gly Phe Tyr Asp Pro Pro Arg Arg Leu Leu Gly Gln Arg Pro
 85 90 95
 Gly Pro Tyr Asp Arg Pro Ile Gly Gly Arg Gly Gly Tyr Tyr Gly Ala
 100 105 110

Gly Arg Gly Ser Met Tyr Asp Arg Met Arg Arg Gly Gly Asp Gly Tyr
 115 120 125

Asp Gly Gly Tyr Gly Gly Phe Asp Asp Tyr Gly Gly Tyr Asn Asn Tyr
 130 135 140

Gly Tyr Gly Asn Asp Gly Phe Asp Asp Arg Met Arg Asp Gly Arg Gly
 145 150 155 160

Met Gly Gly His Gly Tyr Gly Gly Ala Gly Asp Ala Ser Ser Gly Phe
 165 170 175

His Gly Gly His Phe Val His Met Arg Gly Leu Pro Phe Arg Ala Thr
 180 185 190

Glu Asn Asp Ile Ala Asn Phe Phe Ser Pro Leu Asn Pro Ile Arg Val
 195 200 205

His Ile Asp Ile Gly Ala Asp Gly Arg Ala Gln Glu Lys Gln Met
 210 215 220

<210> 117

<211> 26

<212> PRT

<213> Homo sapiens

<400> 117

Phe Thr His Ser Phe Ile Leu Glu His Ala Phe Ser Leu Leu Ile Thr
 1 5 10 15

Leu Pro Val Ser Ser Trp Ala Ala Asn Asn
 20 25

<210> 118

<211> 384

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (20)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (63)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (66)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (187)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 118

Met	Met	Ile	Gln	Trp	Asn	Gly	Pro	Lys	Thr	Ser	Ile	Ser	Glu	Lys	Ala
1				5					10					15	
Arg	Gly	Leu	Xaa	Leu	Thr	Tyr	Ser	Leu	Arg	Asp	Arg	Glu	Arg	Gly	Gly
		20						25				30			
Gly	Arg	Ala	Gln	Ile	Gly	Val	Val	Asp	Asp	Glu	Ala	Lys	Ala	Pro	Asp
		35					40					45			
Leu	Met	Gln	Ile	Met	Glu	Ala	Val	Leu	Gly	Arg	Arg	Val	Gly	Xaa	Leu
	50					55					60				
Arg	Xaa	Ala	Thr	Pro	Ser	Lys	Asp	Ile	Asn	Gln	Leu	Gln	Lys	Ala	Asn
	65				70					75					80
Val	Arg	Leu	Tyr	His	Val	Tyr	Glu	Lys	Gly	Lys	Asp	Leu	Val	Val	Leu
				85					90					95	
Glu	Leu	Ala	Thr	Pro	Pro	Leu	Thr	Gln	Asp	Leu	Leu	Gln	Glu	Glu	Asp
			100					105					110		
Phe	Tyr	Ile	Leu	Asp	Gln	Gly	Gly	Phe	Lys	Ile	Tyr	Val	Trp	Gln	Gly
		115				120						125			
Arg	Met	Ser	Ser	Leu	Gln	Glu	Arg	Lys	Ala	Ala	Phe	Ser	Arg	Ala	Val
	130					135					140				
Gly	Phe	Ile	Gln	Ala	Lys	Gly	Tyr	Pro	Thr	Tyr	Thr	Asn	Val	Glu	Val
	145				150					155				160	
Val	Asn	Asp	Gly	Ala	Glu	Ser	Ala	Ala	Phe	Lys	Gln	Leu	Phe	Arg	Thr
			165						170					175	
Trp	Ser	Glu	Lys	Arg	Arg	Arg	Asn	Gln	Lys	Xaa	Gly	Gly	Arg	Asp	Lys
		180						185					190		
Ser	Ile	His	Val	Lys	Leu	Asp	Val	Gly	Lys	Leu	His	Thr	Gln	Pro	Lys
		195					200					205			
Leu	Ala	Ala	Gln	Leu	Arg	Met	Val	Asp	Asp	Gly	Ser	Gly	Lys	Val	Glu
	210					215					220				
Val	Trp	Cys	Ile	Gln	Asp	Leu	His	Arg	Gln	Pro	Val	Asp	Pro	Lys	Arg
	225				230					235				240	
His	Gly	Gln	Leu	Cys	Ala	Gly	Asn	Cys	Tyr	Leu	Val	Leu	Tyr	Thr	Tyr
			245					250						255	
Gln	Arg	Leu	Gly	Arg	Val	Gln	Tyr	Ile	Leu	Tyr	Leu	Trp	Gln	Gly	His
		260						265					270		
Gln	Ala	Thr	Ala	Asp	Glu	Ile	Glu	Ala	Leu	Asn	Ser	Asn	Ala	Glu	Glu
		275					280					285			
Leu	Asp	Val	Met	Tyr	Gly	Gly	Val	Leu	Val	Gln	Glu	His	Val	Thr	Met

[illegible]